JAN 1 1 2005
PATENT & TRADEMARK OFFICE

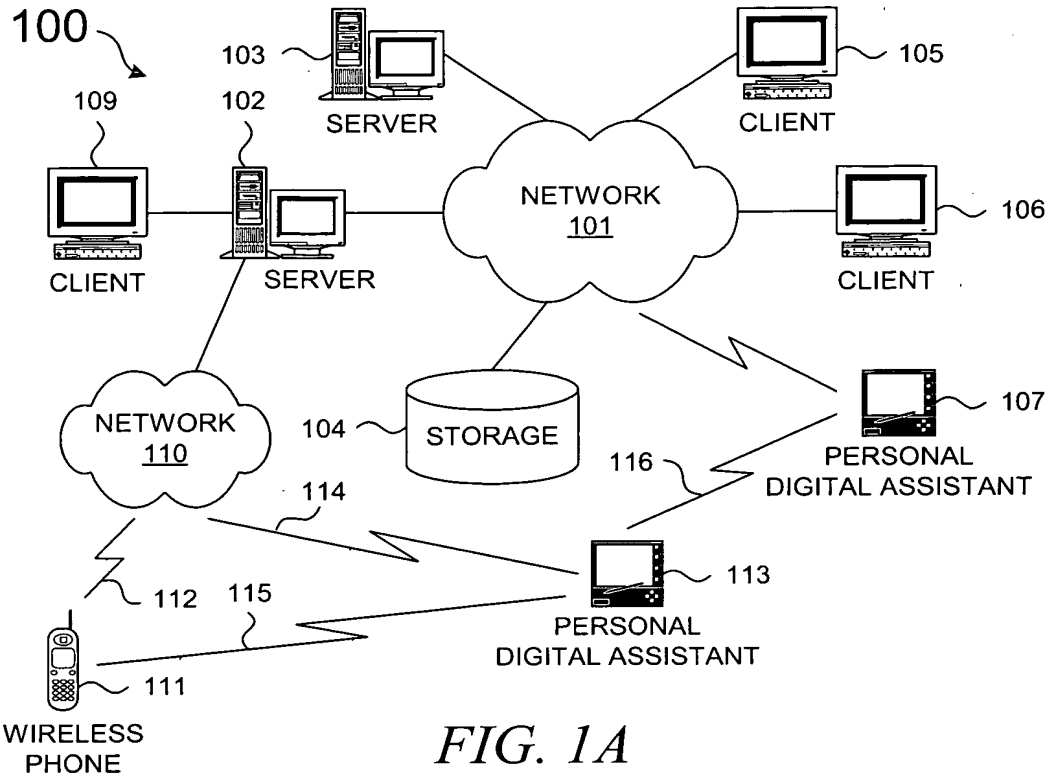

FIG. 1A
(PRIOR ART)

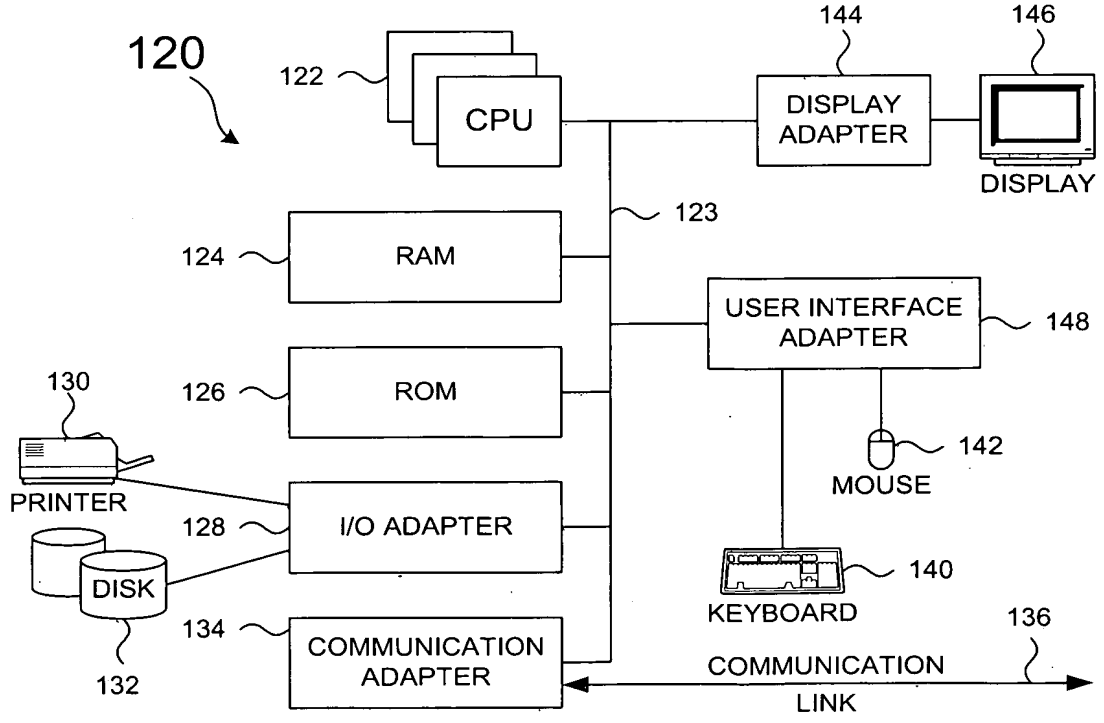

FIG. 1B
(PRIOR ART)

OIPE JC48 JAN 11 2005 PATENT & TRADEMARK OFFICE

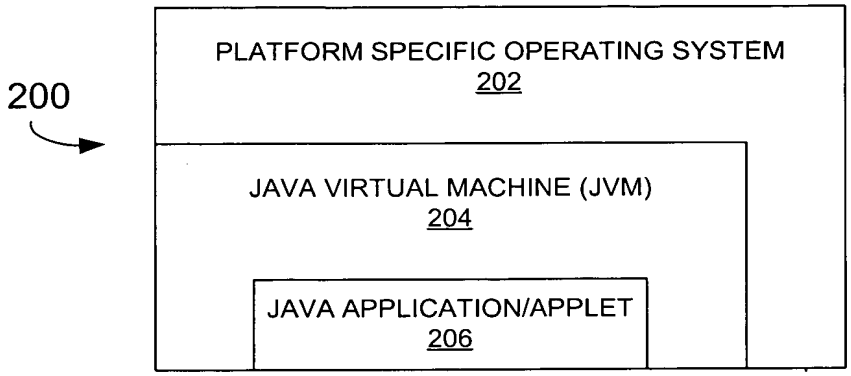

FIG. 2
(PRIOR ART)

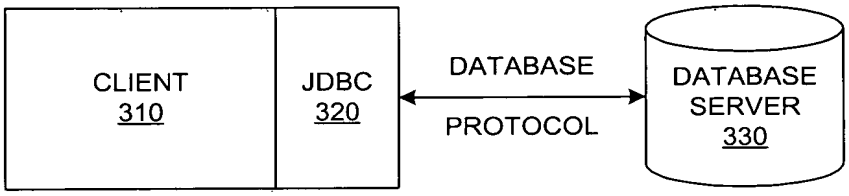

FIG. 3A
(PRIOR ART)

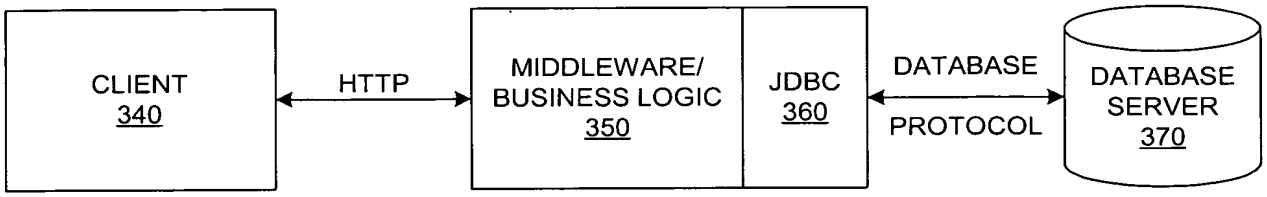

FIG. 3B
(PRIOR ART)

OIPE JC48 JAN 11 2005 PATENT & TRADEMARK OFFICE

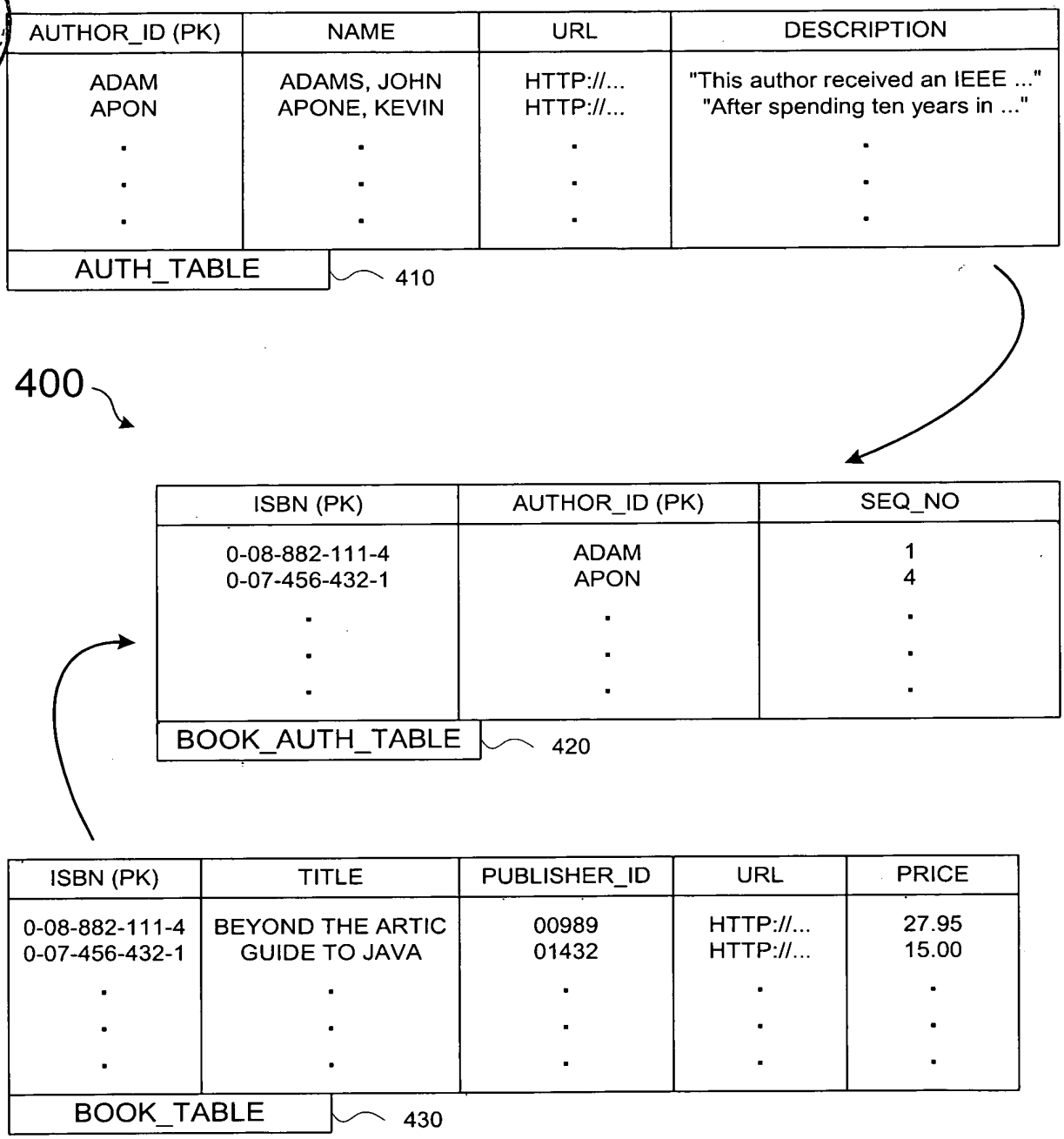

FIG. 4

OIPE JC48
JAN 11 2005
PATENT & TRADEMARK OFFICE

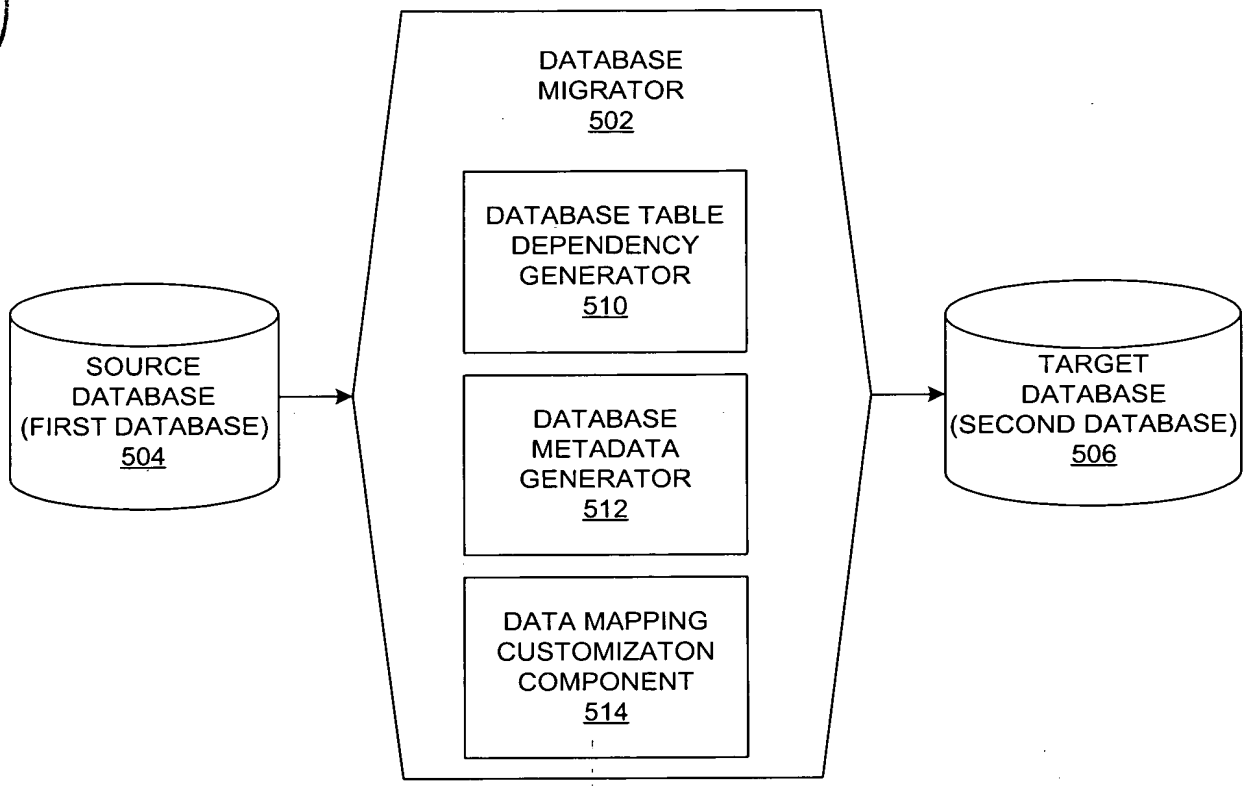

FIG. 5A

OIPE JC48 JAN 11 2005 PATENT & TRADEMARK OFFICE

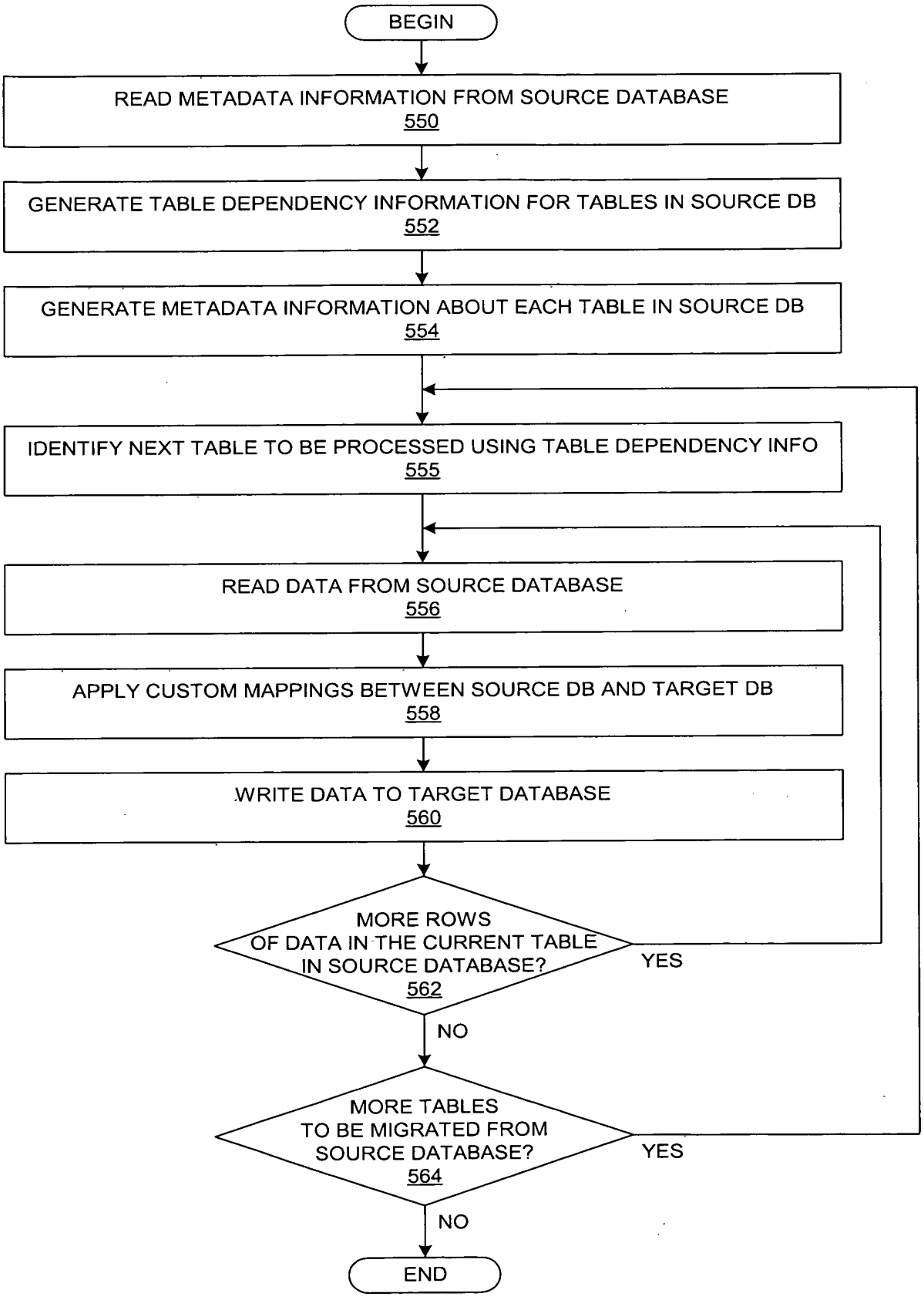

FIG. 5B

OIPE JC48 JAN 11 2005 PATENT & TRADEMARK OFFICE

FIG. 6A

610

```
<Table name="AUTH_TABLE" numattributes="4">
 <PrimaryKey>
  <Field name="AUTHOR_ID" pos="1">
        <Type> VARCHAR2 </Type>
        <Nullable> FALSE </Nullable>
        <Length> 20 </Length>
  </Field>
 </PrimaryKey>
 <Field name="NAME" pos="2">
        <Type> VARCHAR2 </Type>
        <Nullable> FALSE </Nullable>
        <Length> 40 </Length>
 </Field>
 <Field name="URL" pos="3">
        <Type> VARCHAR2 </Type>
        <Nullable> FALSE </Nullable>
        <Length> 1024 </Length>
 </Field>
 <Field name="DESCRIPTION" pos="4">
        <Type> VARCHAR2 </Type>
        <Nullable> FALSE </Nullable>
        <Length> 512 </Length>
  </Field>
</Table>
```

620

```
<MappingRecord TargetTablename="T_AUTH_TABLE" >
   <SourceTableName> AUTH_TABLE </SourceTableName>
   <Field position="1">
      <TargetFieldName type= "String"> T_AUTHOR_ID </TargetFieldName>
      <SourceFieldName> AUTHOR_ID </SourceFieldName>
      <Truncatable> NO </Truncatable>
   </Field>
   <Field position="2">
      <TargetFieldName type= "String"> T_AUTHOR_NAME </TargetFieldName>
      <SourceFieldName> NAME </SourceFieldName>
      <Truncatable> NO </Truncatable>
   </Field>
   <Field position="3">
      <TargetFieldName type= "String"> T_URL </ClassField>
      <SourceFieldName> URL </SourceFieldName>
      <Truncatable> NO </Truncatable>
   </Field>
   <Field position="4">
      <TargetFieldName type= "String"> T_DESCRIPTION </TargetFieldName>
      <SourceFieldName> DESCRIPTION </SourceFieldName>
      <Truncatable> YES </Truncatable>
   </Field>
   <Field position="5" default="Unknown">
      <TargetFieldName type= "String"> T_LOCATION </TargetFieldName>
      <SourceFieldName></SourceFieldName>
   </Field>
</MappingRecord>
```

FIG. 6B

JAN 11 2005 PATENT & TRADEMARK OFFICE

T_AUTHOR_ID	T_AUTHOR_NAME	T_URL	T_DESCRIPTION	T_LOCATION

AUTH_TABLE 630

FIG. 6C

```
<Table Name="AUTH_TABLE">
        <PrimaryKey>
                <Field name="AUTHOR_ID" type="VARCHAR2"></Field>
        </PrimaryKey>
        <Dependent Name="BOOK_AUTH_TABLE">
                <ForeignKey>
                        <Attribute position="1">
                                <Parent>AUTHOR_ID</Parent>
                                <Child>AUTHOR_ID</Child>
                        </Attibute>
                </ForeignKey>
        </Dependent>
</Table>

<Table Name="BOOK_AUTH_TABLE">
        <PrimaryKey>
                <Field name="ISBN" type="VARCHAR2"></Field>
        </PrimaryKey>
        <Dependent Name="BOOK_TABLE">
                <ForeignKey>
                        <Attribute position="1">
                                <Parent>ISBN</Parent>
                                <Child>ISBN</Child>
                        </Attibute>
                </ForeignKey>
        </Dependent>
</Table>

<Table Name="BOOK_TABLE">
        <PrimaryKey>
                <Field name="ISBN" type="VARCHAR2"></Field>
        </PrimaryKey>
</Table>
```

FIG. 6D